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| **SIMLEZA Areas** |  | **Africa RISING Interests** | **Convergence** | **Focal activity** |
| **Objectives** | **Activities** | | |  |
| 1. To enhance technology targeting and delivery for the poor (and women) by identifying systemic constraints and options for improving input and output value chains and impact pathways (**IITA and CIMMYT).** | 1. Input-outputs studies 2. Early adoption & impact studies (*economic analysis*) 3. Impact assessment | 1. Utilization of baseline studies for house hold typology characterization 2. Farm design | 1. Review existing data for gaps and add additional data needed for modelling and site characterization by **WUR** and **IFPRI.** | * Modelling (***Farming system***) and **site characterization** in joint intervention sites (**3**) of Eastern Zambia to improve targeting of interventions. * Fulfil joint monitoring evaluations (**IFPRI**)   **Outputs**   1. Farm typologies for E. Zambia documented. 2. Farm design outputs. |
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| 2. To enhance adoption and adaptation of productive and resilient agronomic practices and local innovation systems for intensification and income growth in maize-legume cropping systems (**IITA and CIMMYT**) | 1. Innovation platform work 2. Exposure to CA principles & practices 3. Soybean & cowpea agronomy 4. Strategic research on constraints to adoption 5. Media work (wide-scale dissemination) | * R4D platforms for sustainable intensification of farming systems. * Agronomic practices (CA, weed management, green cover crops, double cropping), nutrient use efficiency. * Integrated R4D | Strengthen existing IPs | 1. Strengthen & expand the scope existing IPs in the joint intervention sites (Institutional). 2. Testing effective combination of agronomic practices. 3. Small-scale mechanisation. 4. Study efficiency of knowledge dissemination media and partnerships required for scaling-up and out. 5. Strategic research on socio-economic and biophysical constraints to adoption 6. Trade-off analysis for CA based technologies in context of farm households and practices.   **Outputs** |
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| 3. Enhance the diversification of maize, soybean and cowpea use at household level through processing, product diversification and marketing (**Led by IITA**) | 1. Training on processing & utilizations 2. Focus group discussions on legume storage | Value chain  Value addition |  | Inter-project learning (exchange visit). |
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| 4. To increase the range of maize and legume varieties through participatory testing and release, and enhanced delivery of seeds of locally adapted varieties (**IITA for legumes and CIMMYT- for maize)** | Identification of Maize and legume varieties  Production of breeder seed  On-farm variety selection (PVS)  Community based seed production  Seed roadmaps | Seed production and availability to farmers and other critical stakeholders | Increase the range of maize and legume varieties in action areas | 1. Identification of Maize and legume varieties 2. On-farm variety selection (PVS) 3. Analysis & evaluation of community based seed models 4. Review seed roadmaps with stakeholders |
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| 5. To enhance the capacity of national partners on targeting, technology adaptation, trial management, seed and input supply and value chain development | 1. **Nationals partners** (Extension officers, researchers and graduate students 2. Farmers |  |  | Support graduate students undertaking research within the project (MSc) |